

R: 10000

S: 50

Trial 1

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Column Sort:

CPU time to sort: 0.102 seconds

Heap Sort:

CPU time to sort: 0.021 seconds

Trial 2

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Column Sort:

CPU time to sort: 0.162 seconds

Heap Sort:

CPU time to sort: 0.022 seconds

Trial 3

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Column Sort:

CPU time to sort: 0.238 seconds

Heap Sort:

CPU time to sort: 0.023 seconds

I have attached my lab report of Column Sort from my parallel computing class. It is highly useful in parallel computing environment specially for matrix multiplication and for Interprocess communication essentially the Message Passing Interface but it has bandwidth limitations and communication overheads.